CLAIMS

1) Method of manufacturing and assembling, in function of the desired configurations, a volumetric compressor (1; 50; 60; 70; 80) of the type comprising a pair of rotors (2) cooperating with each other and housed inside a compressor body (3),

said compressor body having a first flange (4) arranged on the suction side of said compressor body (3) and a second flange (5) arranged on the delivery side of said compressor body (3), said first flange (4) being suited to be coupled with a suction head (6, 7) and said second flange (5) being suited to be coupled with a delivery head (8, 9) of said volumetric compressor (1), **characterized by comprising** the following operations:

- manufacturing a first suction head (6) comprising a coupling element (12) to a suction pipe, and
- manufacturing a second suction head (7) comprising a coupling element (13) for connection to a suction pipe in combination with a motor unit (14),
  - each of said first and second suction heads (6, 7) being provided with a first counterflange (10, 11), suited to be connected with said first flange (4) of said compressor body (3);
- manufacturing a first delivery head (8) comprising a coupling element (17) to a delivery pipe, and
- manufacturing a second delivery head (9) comprising a coupling element (18) for connection to a delivery pipe in combination with an oil separator (19),
  - each of said first and second delivery heads (8, 9) being provided with a second counterflange (15, 16) suited to be connected with said second flange (5) of said compressor body (3);
- coupling said first flange (4) of said compressor body (3) with said counterflange (10, 11) of any of these first or second suction heads (6, 7);
- coupling said second flange (5) of said compressor body (3) with said counterflange (15, 16) of any of these first or second delivery heads (8, 9).

2) Volumetric compressor (60) according to the method of claim 1), **characterized in that** said first suction head (6) comprises a coupling element (12) for connection to a suction pipe, and said second delivery head (9) comprises a coupling element (17) for connection to a delivery pipe.

3) Volumetric compressor (70) according to the method of claim 1), **characterized in that** said first suction head (6) comprises a coupling element (12) for connection to a suction pipe, and said first delivery head (8) comprises a coupling element (18) for connection to a delivery pipe in combination with an oil separator (19).

4) Volumetric compressor (80) according to the method of claim 1), **characterized in that** said second suction head (7) comprises a coupling element (13) for connection to a suction pipe in combination with a motor unit (14), and said second delivery head (9) comprises a coupling element (17) for connection to a delivery pipe.

5) Volumetric compressor (50) according to the method of claim 1), **characterized in that** said second suction head (7) comprises a coupling element (13) for connection to a suction pipe in combination with a motor unit (14), and said first delivery head (8) comprises a coupling element (18) for connection to a delivery pipe in combination with an oil separator (19).

6) Volumetric compressor (1; 50; 60; 70; 80) according to the method of claim 1), **characterized in that** said coupling element (12, 13) for connection to a suction pipe is constituted by a suction valve.

7) Volumetric compressor (1; 50; 60; 70; 80) according to the method of claim 1), **characterized in that** said coupling element (12, 13) for connection to a suction pipe is constituted by a suction coupling.

8) Volumetric compressor (1; 50; 60; 70; 80) according to the method of claim 1), **characterized in that** said coupling element (17, 18) for connection to a delivery pipe is constituted by a delivery valve.

9) Volumetric compressor (1; 50; 60; 70; 80) according to the method of claim 1), **characterized in that** said coupling element (17, 18) for connection to a delivery pipe is constituted by a delivery coupling.

10) Volumetric compressor (1; 50; 80) according to the method of claim 1), **characterized in that** said motor unit (14) is of the semi-hermetic type.

11) Volumetric compressor (1; 50; 60; 70; 80) according to the method of claim 1), **characterized in that** it comprises fastening means (21) suited to permanently connect said first and second flange (4, 5) to said first and second counterflange (10, 11, 15, 16), respectively.

12) Volumetric compressor (1; 50; 60; 70; 80) according to claim 11),

characterized in that said fastening means (21) are constituted by screws.

13) Volumetric compressor (1; 50; 80) according to the method of claim 1), **characterized in that** said motor unit (14) is constituted by an electric motor.